

## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/510,959  
Source: PCT/10  
Date Processed by STIC: 11/8/04

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PCT

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/510,959**

**DATE: 11/08/2004**  
**TIME: 12:01:10**

**Input Set : A:\PTO.FG.txt**  
**Output Set: N:\CRF4\11082004\J510959.raw**

4 <110> APPLICANT: Lovejoy, David  
 6 Chewpoy, R.B.  
 8 Barsyte, Dalia  
 10 Rotzinger, Susan  
 13 <120> TITLE OF INVENTION: Tereuin C-Terminal Associated Peptides (TCAP) And Methods  
 And Uses  
 14 Thereof  
 16 <130> FILE REFERENCE: 2223-189  
 C--> 19 <140> CURRENT APPLICATION NUMBER: US/10/510,959  
 C--> 21 <141> CURRENT FILING DATE: 2004-11-01  
 24 <150> PRIOR APPLICATION NUMBER: US 60/376,879  
 26 <151> PRIOR FILING DATE: 2002-05-02  
 30 <150> PRIOR APPLICATION NUMBER: US 60/377,231  
 32 <151> PRIOR FILING DATE: 2002-05-03  
 36 <150> PRIOR APPLICATION NUMBER: US 60/424,016  
 38 <151> PRIOR FILING DATE: 2002-11-06  
 42 <160> NUMBER OF SEQ ID NOS: 136  
 46 <170> SOFTWARE: PatentIn version 3.1  
 50 <210> SEQ ID NO: 1  
 52 <211> LENGTH: 1490  
 54 <212> TYPE: DNA  
 56 <213> ORGANISM: Artificial Sequence  
 60 <220> FEATURE:  
 62 <223> OTHER INFORMATION: Rainbow Trout Ten M3 carboxy termini'  
 64 <400> SEQUENCE: 1  
 65 tccatctcg gggtcaaca ggaagtgacc cggcaagcca aggcttcct gtccttcgag 60  
 67 agatgccgg agatccagct gagccgcgg cgctccaacc gggagaaacc ctggctgtgg 120  
 69 ttcgccaccg ccaagtctct gatcgtaag ggtgtcatgt tggcgtgac gcaggcccgt 180  
 71 gtggcacca acgctctgaa catcgccaac gaggactgca tcaaggtcgc cgccgtcctc 240  
 73 aacaatgcgt tctacctgga ggacctgcac ttcacggtg aggacgcga cacgcactac 300  
 75 ttcataaga ccagccccc ggagagcgc ac tggggagcgc tgaggctgac aagcgggagg 360  
 77 aagtgcgtgg agaacggaa tcaacgtgac tgtgtcccag tccaccacgg tggtgaacgg 420  
 79 cagaaccggc gcttcggcga cgtggagctg cagtaggcgc ctctagcgtt ccacgtgcgc 480  
 81 tatggcatga ctctggacga ggagaaggcg cgtgtctgg agcaggccag gcagaaggcg 540  
 83 ttgtcgagtg cctggtccag ggagcaacaa cgggtgaggg agggggagga ggggtgagg 600  
 85 ctgtggacgg agggggagaa gaggcagctg ctgagcggga ggaaggtct gggctacgac 660  
 87 ggtactacg tcctctccat agagcagtac cccgagctag cagactccgc taacaacatc 720  
 89 cagttcctca ggcagagcga aatagggaag agttaacaga cagaatccctc ggcactggcc 780  
 91 gccaaagaga ctacccctc caaatcctgc ccccaaccc ctccgcctc ccccttttc 840  
 93 tctaaaaagg gggaggggtcc aggctagtgc tgtgttagc gccgactagc tgaaaacaaac 900  
 95 agtaaaatgt agaataatctt aaactgaact atacctaata ctaccactgt ggggcctgaa 960  
 97 aatcaaacaa aacggctcca actgacgcaa atgttgtcc catgtgctat acagcgttga 1020  
 99 atggactgtg gactctttt gaaaagagaga aaaaaaagtc aaaactctcg gtttgtgaaa 1080  
 101 ggagaaaaaa acgtttttt ttttttaaa tagacttcct gaatttgctt tcggaaaaaa 1140

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103 tattttaaaa agaaagaaga aatgtgtta catacgata acactacaac acgtctggac 1200  
 105 taatagaaga aaagccttct ggtttcttac acaggacaac gtctataatc tgattctaca 1260  
 107 tcctgacgac tgacccttga ttgaccttgc cgtactgaaa aaggtagtgt tttgttcgc 1320  
 109 agtaggacca tgggtctcca atgggtgtaa ctagacagtt aaaaccactt gttgaaacca 1380  
 111 cttgcttgtt cttctgctt tcttccaaa agggacaaaaa cagctccac caagtgactt 1440  
 113 ctttaccaat actagatcaa agtgggacgt tttgggctcg tgccgaattc 1490  
 116 <210> SEQ ID NO: 2  
 118 <211> LENGTH: 756  
 120 <212> TYPE: DNA  
 122 <213> ORGANISM: Artificial Sequence  
 126 <220> FEATURE:  
 128 <223> OTHER INFORMATION: Rainbow Trout Ten M3 coding sequence of carboxy termini of

Ten M3

130 <400> SEQUENCE: 2  
 131 tccatctcg gggtgcaaca ggaagtgacc cggcaagcca aggcttcct gtccttcgag 60  
 133 agatgccgg agatccagct gagccgccc cgctccaacc gggagaaacc ctggctgtgg 120  
 135 ttgcaccgg ccaagtctct gatcggtaa ggtgtcatgt tggcggtgac gcagggccgt 180  
 137 gtggcacca acgctctgaa catcgccaaac gaggactgca tcaaggtcgc cgccgtcctc 240  
 139 aacaatgcgt tctacctgga ggacctgac ttcacggtg agggacgcga cacgcactac 300  
 141 ttcatcaaga ccagcctccc ggagagcgc acggcgtgac tgaggctgac aagcgggagg 360  
 143 aagtgcgtgg agaacggaa tcaacgtgac tgggtcccg tccaccaccc tggtaacgg 420  
 145 cagaaccggc gcttcggc cgtggagctg cagtagggcg ctctagcgct ccacgtgcgc 480  
 147 tatggcatga ctctggacga ggagaaggcg cgtgtctgg agcaggccag gcagaaggcg 540  
 149 ttgtcgagtg cctggccag ggagcaacaa cgggtgaggg agggggagga ggggggtgagg 600  
 151 ctgtggacgg agggggagaa gaggcagctg ctgagcggg ggaaggtct gggctacgac 660  
 153 gggtaactacg tcctctccat agagcagtag cccgagctg cagactccgc taacaacatc 720  
 155 cagttcctca ggcagagcga aataggaaag agttaa 756

158 <210> SEQ ID NO: 3  
 160 <211> LENGTH: 251  
 162 <212> TYPE: PRT  
 164 <213> ORGANISM: Artificial Sequence  
 168 <220> FEATURE:

170 <223> OTHER INFORMATION: Rainbow Trout Ten M3 carboxy termini of Ten M3

172 <400> SEQUENCE: 3  
 174 Ser Ile Ser Gly Val Gln Gln Glu Val Thr Arg Gln Ala Lys Ala Phe  
 175 1 5 10 15  
 178 Leu Ser Phe Glu Arg Met Pro Glu Ile Gln Leu Ser Arg Arg Arg Ser  
 179 20 25 30  
 182 Asn Arg Glu Lys Pro Trp Leu Trp Phe Ala Thr Ala Lys Ser Leu Ile  
 183 35 40 45  
 186 Gly Lys Gly Val Met Leu Ala Val Thr Gln Gly Arg Val Val Thr Asn  
 187 50 55 60  
 190 Ala Leu Asn Ile Ala Asn Glu Asp Cys Ile Lys Val Ala Ala Val Leu  
 191 65 70 75 80  
 194 Asn Asn Ala Phe Tyr Leu Glu Asp Leu His Phe Thr Val Glu Gly Arg  
 195 85 90 95  
 198 Asp Thr His Tyr Phe Ile Lys Thr Ser Leu Pro Glu Ser Asp Leu Gly  
 199 100 105 110  
 202 Ala Leu Arg Leu Thr Ser Gly Arg Lys Ser Leu Glu Asn Gly Val Asn  
 203 115 120 125

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206 Val Thr Val Ser Gln Ser Thr Thr Val Val Asn Gly Arg Thr Arg Arg  
207 130 135 140  
210 Phe Ala Asp Val Glu Leu Gln Tyr Gly Ala Leu Ala Leu His Val Arg  
211 145 150 155 160  
214 Tyr Gly Met Thr Leu Asp Glu Glu Lys Ala Arg Val Leu Glu Gln Ala  
215 165 170 175  
218 Arg Gln Lys Ala Leu Ser Ser Ala Trp Ser Arg Glu Gln Gln Arg Val  
219 180 185 190  
222 Arg Glu Gly Glu Glu Gly Val Arg Leu Trp Thr Glu Gly Glu Lys Arg  
223 195 200 205  
226 Gln Leu Leu Ser Gly Arg Lys Val Leu Gly Tyr Asp Gly Tyr Tyr Val  
227 210 215 220  
230 Leu Ser Ile Glu Gln Tyr Pro Glu Leu Ala Asp Ser Ala Asn Asn Ile  
231 225 230 235 240  
234 Gln Phe Leu Arg Gln Ser Glu Ile Gly Lys Arg  
235 245 250  
238 <210> SEQ ID NO: 4  
240 <211> LENGTH: 252  
242 <212> TYPE: PRT  
244 <213> ORGANISM: Artificial Sequence  
248 <220> FEATURE:  
250 <223> OTHER INFORMATION: Mouse Ten M1  
252 <400> SEQUENCE: 4  
254 Met Ile Leu Gly Ile Gln Cys Glu Leu Gln Lys Gln Leu Arg Asn Phe  
255 1 5 10 15  
258 Ile Ser Leu Asp Gln Leu Pro Met Thr Pro Gln Tyr Asn Glu Gly Arg  
259 20 25 30  
262 Cys Leu Glu Gly Lys Gln Pro Arg Phe Ala Ala Val Pro Ser Val  
263 35 40 45  
266 Phe Gly Lys Gly Ile Lys Phe Ala Ile Lys Glu Gly Ile Val Thr Ala  
267 50 55 60  
270 Asp Ile Ile Gly Val Ala Asn Glu Asp Ser Arg Arg Leu Ala Ala Ile  
271 65 70 75 80  
274 Leu Asn Asn Ala His Tyr Leu Glu Asn Leu His Phe Thr Ile Glu Gly  
275 85 90 95  
278 Arg Asp Thr His Tyr Phe Ile Lys Leu Gly Ser Leu Glu Glu Asp Leu  
279 100 105 110  
282 Val Leu Ile Gly Asn Thr Gly Gly Arg Arg Ile Leu Glu Asn Gly Val  
283 115 120 125  
286 Asn Val Thr Val Ser Gln Met Thr Ser Val Leu Asn Gly Arg Thr Arg  
287 130 135 140  
290 Arg Phe Ala Asp Ile Gln Leu Gln His Gly Ala Leu Cys Phe Asn Ile  
291 145 150 155 160  
294 Arg Tyr Gly Thr Thr Val Glu Glu Lys Asn His Val Leu Glu Met  
295 165 170 175  
298 Ala Arg Gln Arg Ala Val Ala Gln Ala Trp Thr Gln Glu Gln Arg Arg  
299 180 185 190  
302 Leu Gln Glu Gly Glu Glu Gly Thr Arg Val Trp Thr Glu Gly Glu Lys  
303 195 200 205

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306 Gln Gln Leu Leu Gly Thr Gly Arg Val Gln Gly Tyr Asp Gly Tyr Phe  
 307 210 215 220  
 310 Val Leu Ser Val Glu Gln Tyr Leu Glu Leu Ser Asp Ser Ala Asn Asn  
 311 225 230 235 240  
 314 Ile His Phe Met Arg Gln Ser Glu Ile Gly Arg Arg  
 315 245 250  
 318 <210> SEQ ID NO: 5  
 320 <211> LENGTH: 253  
 322 <212> TYPE: PRT  
 324 <213> ORGANISM: Artificial Sequence  
 328 <220> FEATURE:  
 330 <223> OTHER INFORMATION: Mouse Ten M2  
 332 <400> SEQUENCE: 5  
 334 Leu Ile Thr Gly Val Gln Gln Thr Thr Glu Arg His Asn Gln Ala Phe  
 335 1 5 10 15  
 338 Leu Ala Leu Glu Gly Gln Val Ile Thr Lys Lys Leu His Ala Ser Ile  
 339 20 25 30  
 342 Arg Glu Lys Ala Gly His Trp Phe Ala Thr Thr Pro Ile Ile Gly  
 343 35 40 45  
 346 Lys Gly Ile Met Phe Ala Ile Lys Glu Gly Arg Val Thr Thr Gly Val  
 347 50 55 60  
 350 Ser Ser Ile Ala Ser Glu Asp Ser Arg Lys Val Ala Ser Val Leu Asn  
 351 65 70 75 80  
 354 Asn Ala Tyr Tyr Leu Asp Lys Met His Tyr Ser Ile Glu Gly Lys Asp  
 355 85 90 95  
 358 Thr His Tyr Phe Val Lys Ile Gly Ala Ala Asp Gly Asp Leu Val Thr  
 359 100 105 110  
 362 Leu Gly Thr Thr Ile Gly Arg Lys Val Leu Glu Ser Gly Val Asn Val  
 363 115 120 125  
 366 Thr Val Ser Gln Pro Thr Leu Leu Val Asn Gly Arg Thr Arg Arg Phe  
 367 130 135 140  
 370 Thr Asn Ile Glu Phe Gln Tyr Ser Thr Leu Leu Leu Ser Ile Arg Tyr  
 371 145 150 155 160  
 374 Gly Leu Thr Pro Asp Thr Leu Asp Glu Glu Lys Ala Arg Val Leu Asp  
 375 165 170 175  
 378 Gln Ala Gly Gln Arg Ala Leu Gly Thr Ala Trp Ala Lys Glu Gln Gln  
 379 180 185 190  
 382 Lys Ala Arg Asp Gly Arg Glu Gly Ser Arg Leu Trp Thr Glu Gly Glu  
 383 195 200 205  
 386 Lys Gln Gln Leu Leu Ser Thr Gly Arg Val Gln Gly Tyr Glu Gly Tyr  
 387 210 215 220  
 390 Tyr Val Leu Pro Val Glu Gln Tyr Pro Glu Leu Ala Asp Ser Ser Ser  
 391 225 230 235 240  
 394 Asn Ile Gln Phe Leu Arg Gln Asn Glu Met Gly Lys Arg  
 395 245 250  
 398 <210> SEQ ID NO: 6  
 400 <211> LENGTH: 251  
 402 <212> TYPE: PRT  
 404 <213> ORGANISM: Artificial Sequence

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Input Set : A:\PTO.FG.txt  
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408 <220> FEATURE:  
 410 <223> OTHER INFORMATION: Mouse Ten M3  
 412 <400> SEQUENCE: 6  
 414 Pro Ile Phe Gly Val Gln Gln Val Ala Arg Gln Ala Lys Ala Phe  
 415 1 5 10 15  
 418 Leu Ser Leu Gly Lys Met Ala Glu Val Gln Val Ser Arg Arg Lys Ala  
 419 20 25 30  
 422 Gly Ala Glu Gln Ser Trp Leu Trp Phe Ala Thr Val Lys Ser Leu Ile  
 423 35 40 45  
 426 Gly Lys Gly Val Met Leu Ala Val Ser Gln Gly Arg Val Gln Thr Asn  
 427 50 55 60  
 430 Val Leu Asn Ile Ala Asn Glu Asp Cys Ile Lys Val Ala Ala Val Leu  
 431 65 70 75 80  
 434 Asn Asn Ala Phe Tyr Leu Glu Asn Leu His Phe Thr Ile Glu Gly Lys  
 435 85 90 95  
 438 Asp Thr His Tyr Phe Ile Lys Thr Thr Pro Glu Ser Asp Leu Gly  
 439 100 105 110  
 442 Thr Leu Arg Leu Thr Ser Gly Arg Lys Ala Leu Glu Asn Gly Ile Asn  
 443 115 120 125  
 446 Val Thr Val Ser Gln Ser Thr Thr Val Val Asn Gly Arg Thr Arg Arg  
 447 130 135 140  
 450 Phe Ala Asp Val Glu Met Gln Phe Gly Ala Leu Ala Leu His Val Arg  
 451 145 150 155 160  
 454 Tyr Gly Met Thr Leu Asp Glu Glu Lys Ala Arg Ile Leu Glu Gln Ala  
 455 165 170 175  
 458 Arg Gln Arg Ala Leu Ala Arg Ala Trp Ala Arg Glu Gln Gln Arg Val  
 459 180 185 190  
 462 Arg Asp Gly Glu Glu Gly Ala Arg Leu Trp Thr Glu Gly Glu Lys Arg  
 463 195 200 205  
 466 Gln Leu Leu Ser Ala Gly Lys Val Gln Gly Tyr Asp Gly Tyr Tyr Val  
 467 210 215 220  
 470 Leu Ser Val Glu Gln Tyr Pro Glu Leu Ala Asp Ser Ala Asn Asn Ile  
 471 225 230 235 240  
 474 Gln Phe Leu Arg Gln Ser Glu Ile Gly Lys Arg  
 475 245 250  
 478 <210> SEQ ID NO: 7  
 480 <211> LENGTH: 243  
 482 <212> TYPE: PRT  
 484 <213> ORGANISM: Artificial Sequence  
 488 <220> FEATURE:  
 490 <223> OTHER INFORMATION: Mouse Ten M4  
 492 <400> SEQUENCE: 7  
 494 Ser Ile Leu Gly Val Gln Cys Glu Val Gln Lys Gln Leu Lys Ala Phe  
 495 1 5 10 15  
 498 Val Thr Leu Glu Arg Phe Asp Gln Leu Tyr Gly Ser Thr Ile Thr Ser  
 499 20 25 30  
 502 Cys Gln Gln Ala Pro Glu Thr Lys Lys Phe Ala Ser Ser Gly Ser Ile  
 503 35 40 45  
 506 Phe Gly Lys Gly Val Lys Phe Ala Leu Lys Asp Gly Arg Val Thr Thr

RAW SEQUENCE LISTING ERROR SUMMARY  
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Input Set : A:\PTO.FG.txt  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:129; Xaa Pos. 1,3,4,5,6  
Seq#:130; Xaa Pos. 1,2,3,4  
Seq#:131; Xaa Pos. 2,3,4  
Seq#:135; Xaa Pos. 5,6,9,19,32

VERIFICATION SUMMARY  
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Input Set : A:\PTO.FG.txt  
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L:19 M:270 C: Current Application Number differs, Replaced Application Number  
L:21 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:3903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:129 after pos.:0  
L:3964 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130 after pos.:0  
L:4015 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131 after pos.:0  
L:4039 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:132,Line#:4035  
L:4799 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:133,Line#:4795  
L:4949 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:134,Line#:4945  
L:5109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:135 after pos.:0  
M:341 Repeated in SeqNo=135